

Please amend the present application as follows:

Claims

The following is a copy of Applicant's claims that identifies language being added with underlining ("___") and language being deleted with strikethrough ("——"), as is applicable:

1. (Currently amended) A thermal liner for use in a protective garment, the liner comprising:

an insulation layer comprising a batt of entangled flame resistant fibers, the ~~insulation layer~~ batt having a three-dimensional pattern that defines a plurality of closed-cell air pockets that are configured to trap air to insulate a wearer of the thermal liner, the insulation layer being shaped and configured for inclusion in the protective garment and for donning by the wearer.

2. (Original) The thermal liner of claim 1, wherein the batt comprises at least one of aramid, melamine, FR rayon, modacrylic, and carbon fibers.

3. (Original) The thermal liner of claim 1, wherein the closed-cell air pockets are formed on an inner side of the insulation layer adapted to face the wearer.

4. (Original) The thermal liner of claim 1, wherein the closed-cell air pockets are defined by boundary walls.

5. (Original) The thermal liner of claim 1, wherein the closed-cell air pockets comprise repeated geometric shapes.

6. (Original) The thermal liner of claim 5, wherein the repeated geometric shapes comprise at least one of honeycombs, circles, and triangles.

7. (Original) The thermal liner of claim 1, wherein the closed-cell air pockets have transverse dimensions within the range of about $1/16$ inches to about $1/2$ inches and depth dimensions within the range of about $1/8$ inches to about $5/16$ inches.

8. (Original) The thermal liner of claim 1, wherein the insulation layer has a weight in the range of about 0.75 ounces per square yard to about 8 ounces per square yard.

9. (Original) The thermal liner of claim 1, wherein the insulation layer has a weight in the range of about 1.5 ounces per square yard to about 2.7 ounces per square yard.

10. (Original) The thermal liner of claim 1, comprising multiple insulation layers, each insulation layer comprising a batt of entangled flame resistant fibers and having a three-dimensional pattern that defines a plurality of closed-cell air pockets that are configured to trap air to insulate the wearer of the thermal liner.

11. (Original) The thermal liner of claim 1, further comprising a facecloth layer that is attached to the insulation layer, the facecloth layer comprising a plurality of flame resistant fibers.

12. (Original) The thermal liner of claim 11, wherein the facecloth layer is attached to an inner side of the insulation layer such that the closed-cell air pockets of the insulation layer face the facecloth layer.

13. (Original) The thermal liner of claim 11, wherein the facecloth layer comprises at least one of aramid, melamine, FR rayon, modacrylic, and carbon fibers.

14. (Original) The thermal liner of claim 11, wherein the facecloth layer comprises a hydrophilic finish.

15. (Currently amended) A thermal liner for use in a protective garment, the liner comprising:

an insulation layer comprising a batt of entangled flame resistant fibers, the ~~insulation layer~~ batt having a three-dimensional geometric pattern provided on an inner side of the insulation layer that forms a plurality of closed-cell air pockets that are defined by boundary walls and that are configured to trap air to insulate a wearer of the thermal liner; and

a facecloth layer that is attached to the inner side of the insulation layer, the facecloth layer comprising a plurality of flame resistant fibers;

wherein the thermal liner is shaped and configured for inclusion in the protective garment and for donning by the wearer.

16. (Original) The thermal liner of claim 15, wherein the batt comprises at least one of aramid, melamine, FR rayon, modacrylic, and carbon fibers.

17. (Original) The thermal liner of claim 15, wherein the closed-cell air pockets have geometric shapes that comprise at least one of honeycombs, circles, and triangles.

18. (Original) The thermal liner of claim 15, wherein the closed-cell air pockets have transverse dimensions within the range of about 1/16 inches to about 1/2 inches and depth dimensions within the range of about 1/8 inches to about 5/16 inches.

19. (Original) The thermal liner of claim 15, wherein the insulation layer has a weight in the range of about 0.75 ounces per square yard to about 8 ounces per square yard.

20. (Original) The thermal liner of claim 15, wherein the insulation layer has a weight in the range of about 1.5 ounces per square yard to about 2.7 ounces per square yard.

21. (Original) The thermal liner of claim 15, comprising multiple insulation layers, each insulation layer comprising a batt of entangled flame resistant fibers and a three-dimensional pattern that defines a plurality of closed-cell air pockets that are configured to trap air to insulate the wearer of the thermal liner.

22. (Original) The thermal liner of claim 15, wherein the facecloth layer comprises at least one of aramid, melamine, FR rayon, modacrylic, and carbon fibers.

23. (Original) The thermal liner of claim 15, wherein the facecloth layer comprises a hydrophilic finish.

24. (Currently amended) A protective garment, comprising:
an outer shell formed of a flame and abrasion resistant material;
a moisture barrier formed of a flame resistant material; and
a thermal liner including an insulation layer comprising a batt of entangled flame resistant fibers, the ~~insulation layer~~ batt having a three-dimensional pattern provided on an inner side of the insulation layer that forms a plurality of closed-cell air pockets that are configured to trap air to insulate a wearer of the protective garment.

25. (Original) The protective garment of claim 24, wherein the insulation layer batt comprises at least one of aramid, melamine, FR rayon, modacrylic, and carbon fibers.

26. (Original) The protective garment of claim 24, wherein the closed-cell air pockets of the insulation layer comprise repeated geometric shapes.

27. (Original) The protective garment of claim 26, wherein the repeated geometric shapes comprise at least one of honeycombs, circles, and triangles.

28. (Original) The protective garment of claim 24, wherein the closed-cell air pockets of the insulation layer have transverse dimensions within the range of about $1/16$ inches to about $1/2$ inches and depth dimensions within the range of about $1/8$ inches to about $5/16$ inches.

29. (Original) The protective garment of claim 24, wherein the insulation layer has a weight in the range of about 0.75 ounces per square yard to about 8 ounces per square yard.

30. (Original) The protective garment of claim 24, wherein the insulation layer has a weight in the range of about 1.5 ounces per square yard to about 2.7 ounces per square yard.

31. (Original) The protective garment of claim 24, wherein the insulation layer comprises a facecloth layer that is attached to the inner side of the insulation layer, the facecloth layer comprising a plurality of flame resistant fibers.

32. (Original) The protective garment of claim 31, wherein the facecloth layer comprises at least one of aramid, melamine, FR rayon, modacrylic, and carbon fibers.

33. (New) A thermal liner comprising:
an insulation layer comprising a batt of entangled flame resistant fibers, the batt having a three-dimensional pattern that is physically imprinted into the batt, the three-dimensional pattern defining a plurality of closed-cell air pockets that are configured to trap air to insulate a wearer of the thermal liner.

34. (New) The thermal liner of claim 33, wherein the three-dimensional pattern is physically imprinted into the batt through a hydroentanglement process.

35. (New) The thermal liner of claim 33, wherein the batt comprises one or more of aramid, melamine, FR rayon, modacrylic, and carbon fibers.

36. (New) The thermal liner of claim 33, wherein the closed-cell air pockets are defined by boundary walls that separate each air pocket from adjacent air pockets.

37. (New) The thermal liner of claim 33, wherein the closed-cell air pockets comprise repeated geometric shapes.

38. (New) The thermal liner of claim 37, wherein the repeated geometric shapes comprise one or more of honeycombs, circles, and triangles.

39. (New) The thermal liner of claim 33, wherein the closed-cell air pockets have transverse dimensions within the range of about 1/16 inches to about 1/2 inches and depth dimensions within the range of about 1/8 inches to about 5/16 inches.

40. (New) The thermal liner of claim 33, wherein the insulation layer has a weight in the range of about 1.5 ounces per square yard to about 2.7 ounces per square yard.

41. (New) The thermal liner of claim 33, further comprising a facecloth layer that is attached to the insulation layer, the facecloth layer comprising a plurality of flame resistant fibers.

42. (New) The thermal liner of claim 33, wherein the facecloth layer is attached to an inner side of the insulation layer such that the closed-cell air pockets of the insulation layer face the facecloth layer.

43. (New) The thermal liner of claim 42, wherein the facecloth layer comprises a hydrophilic finish.